



PATENT APPLICATION CS-7733 LeA 36,033

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION OF	) \
HORST-PETER ANTONICEK ET AL	) )
SERIAL NUMBER: 10/511,221	) )
FILED: OCTOBER 13, 2004	) )
TITLE: HELICOKININ RECEPTOR FROM INSECTS	) )

## **INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. 1.97(b)**

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

This disclosure statement under 37 CFR 1.97 & 1.98 is submitted before the first Office Action in order that the Patent and Trademark Office may consider the relevancy of certain information to the invention described and claimed in the subject application, and in compliance with the regulations concerning information disclosure statements, copies of the documents listed on the attached Form PTO-1449 are enclosed.

hereby certify that this corresponde with the United States Postal Service	<b>.</b>
enveloped addressed to: Commission	oner for Patents,
Alexandria, VA 22313-1450 on	6/06/05
	Date
Raymond J. Harmuth, Reg	g. No. 33,896
Name of applicant, assignee or Reg	istered Representative
Signature	
June 6, 2005	
Date	

Concise statements of the presently understood relevance of each of the documents are found in the specification filed.

This Information Disclosure Statement should not be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, that any document mentioned herein constitutes prior art, or that the documents listed severally or in any combination with one another or with any other information, are believed to render any claim in the subject application prima facie unpatentable.

Respectfully submitted,

By Raymond J. Harmuth
Attorney for Applicant(s)

Reg. No. 33,896

Bayer CropScience LP 100 Bayer Road Pittsburgh, Pennsylvania 15205-9741 (412) 777-3916 FACSIMILE PHONE NUMBER (412)777-3902 s:\bsh\RJH070

Form	PTO 1449		U.S. Department of Co	mmer	~		Attv. Docket No		Sheet 1 Serial No.	of <u>14</u>			
Rev	7-80		Patent and Trademark	Office			CS-7733/LeA 36,033		10/511,221				
5	<b>DE</b> PRE		RIOR ART CITED BY A Several Sheets If Nece		ANT		Applicant Horst-Peter Antonicek et al						
	, S	.)		• •		•	Filing Date	Group					
JUN	0 8 2005	8			U.S.	PATEN	October 13, 2004 NT DOCUMENTS						
EX	AMINER &		20011145117 111114							FILING			
Cer.	NITIAL TRADE	ĺ	DOCUMENT NUMI	SEK	0,	TE	NAME	CLASS	SUBCLASS	IF API			
		AA											
-		I AA			<u> </u>			<u> </u>					
· .		AB											
		AC											
		AD											
					<u> </u>	<del></del>							
-		AE					<del></del>						
		AF								-			
		AG		-		-							
		АН											
<u> </u>		AI						_					
		AJ											
		AK											
	····			FC	DREIG	N PAT	ENT DOCUMENTS		<b>Y</b>				
		DOC	CUMENT NUMBER	DA	TE		COUNTRY	CLASS	SUBCLASS	TRANSL	ATION		
						ļ		<del></del>		Yes	No		
	AL	*100	13 618	09/20/	01	Germai	ny						
	АМ	*01/70	980	09/27/	01	World F	Patent						
	AN												
	AO												
	AP												
	<u> AF</u>		OTHER PRIOR	ART	(Inclu	ding Au	thor, Title, Date, Perl	inent Pages	s, Etc.)		L		
							th unavailable) 1999,			Birgül et	al,		
	AR						entification of a nove						
							o the mammalian sor				amily"		
<u> </u>	AS	<del>-  </del>					available) 1975, page n, a Myotropic Peptid						
-	AS						ilable) 1998, pages 4				-		
	AT	+	Diuretic Peptides:					42-443, Get	oniey w. Coas	t, msect			
EXA	MINER	1	Diarono i epilues.	Judet	arcs,	_+01411	DATE CONSIDERED						
FYA	MINER Initie	l if rofe	rences considered who	ether or	not cits	ation is in	conformance with MPEP 6	609: Draw line	through if not in co	onformance	and		
			copy of this form with										

Sheet 2 of 14

Rev. 7-80 Patent and Trademark Office LIST OF PRIOR ART CITED BY APPLICANT (Use Several Sheets If Necessary)  Filing Date October 13, 2004  U.S. PATENT DOCUMENTS  EXAMINER  Patent and Trademark Office CS-7733/LeA 36,033 10/511,221  Applicant Horst-Peter Antonicek et al Filing Date October 13, 2004  FILII	NG DATE
Filing Date October 13, 2004  U.S. PATENT DOCUMENTS	APPRO-
U.S. PATENT DOCUMENTS	APPRO-
	APPRO-
	APPRO-
INITIAL DOCUMENT NUMBER DATE NAME CLASS SUBCLASS IF	
P	RIATE
- AB ,	
AC	
· AD	
AE .	
AF	
AG .	<del></del>
AH	
AI	
AJ	-,
AK	
FOREIGN PATENT DOCUMENTS	
DOCOMENT NOMBER	SLATION
Yes	No No
AL	
AM	
AN	
AO	
AP AP	
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)	
Nature, vol. 363, May 20, 1993, pages 274-276, Bruce R. Conlkin et al, Substitution of thre	e amino
AR acids switches receptor specificity of $G_q\alpha$ to that of $G_i\alpha$ "	
J. Neurosci., 17(4) February 15, 1997, pages 1197-1205, Kingsley J. A. Cox et al, "Cloning	],
AS Characterization, and Expression of a G-Protein-Coupled Receptor from Lymnaea stagnali	s and
Identification of a Leucokinin-Like Peptide, PSFHSWSamide, as its Endogenous Ligand"	
Nucleic Acids Research 12, (month unavailable) 1984, pages 387-395, John Devereux et a	u, A
AT comprehensive set of sequence analysis programs for the VAX"  EXAMINER  DATE CONSIDERED	

EXAMINER Initial if references considered, whether or not citation is in conformance with MPEP 609: Draw line through if not in conformance and not considered. Include copy of this form with next communication to applicant.

Sheet 3 of 14

Form PTO 144 Rev. 7-80		U.S. Department of Control Patent and Trademark RIOR ART CITED BY	Office		Atty. Docket No Serial No. CS-7733/LeA 36,033 10/511,221  Applicant				
-		Several Sheets If Nec			Horst-Peter Antonicek	et al			
	-				Filing Date October 13, 2004		Group		
		<del></del>	U.S.	PATE	NT DOCUMENTS				J
EXAMINER INITIAL		DOCUMENT NUM		ATE	NAME	CLASS	SUBCLASS	FILING IF API PRIA	PRO-
	AA								
•	AB						.		
	AC								
•	AD						_		
	AE								
	AF						<del> </del>		
	AG							_	
	AH			_					
	Ai								
	AJ								
	AK	<u> </u>							
	<del>-</del>		FORE	GN PA	TENT DOCUMENTS	<del></del>	Т	I	
	DO	CUMENT NUMBER	DATE		COUNTRY	CLASS	SUBCLASS	TRANSL	
							<del>                                     </del>	Yes	No
AL							<u> </u>		
AM			_	_					<del> </del>
AN							ļ		<u> </u>
AO				-					<del>                                     </del>
AP			<u> </u>	<u> </u>					
		OTHER PRIO	R ART (Incl	uding A	uthor, Title, Date, Per	tinent Pages	Dumont "Oo	gonocio i	<u> </u>
AR		Xenopus laevis (I		valiable	e) 1972, pages 153-17	9, Janies IV.	Duffiorit, Oo	genesis i	··
<b>—</b>				availah	ole) 2000, pages 924-9	38 Kathrine	Kraneskov F	riksen et	al.
AS		"Molecular Clonin a Novel Leu-rich	g, Genomic	Organ	ization Developmenta g G Protein-coupled R	I Regulation	, and a Knock	-out Muta	int of
	+	melanogaster"	Sci II S A	Vol 8	88, pages 7209-7213,	R.H. ffrench	-Constant et a	l. "Moleci	ular
АТ		cloning and trans acid subtype A re	formation of	fcyclod	liene resistance in <i>Dro</i>	<i>sophila:</i> An	invertebrate γ	-aminobu	ityric
EXAMINER		acia sabiyee A le	Coptor 1000		DATE CONSIDERED	)		-	

EXAMINER Initial if references considered, whether or not citation is in conformance with MPEP 609: Draw line through if not in conformance and not considered. Include copy of this form with next communication to applicant.

Copies of documents previously submitted by WIPO.

EXAMINER

Form PT Rev. 7-8	30 ·	ST OF	U.S. Department of Patent and Trademar PRIOR ART CITED BY Several Sheets If Ne	k Office <b>' APPLICAN</b> '	т	Atty. Docket No CS-7733/LeA 36,03 Applicant Horst-Peter Antonic		Serial No. 10/511,221	<u>4 of 14</u>	
<u></u>					C DATE	Filing Date October 13, 2004		Group		
EXAM			DOCUMENT NUM		DATE	NT DOCUMENTS NAME	CLASS	SUBCLASS	S IFAI	G DATE PPRO- NATE
		AA								
		АВ								
		AC	-							
		AD								
		AE							_	
		AF		<del></del>						
		AG							<u> </u>	
		AH								
		AJ						<del> </del>		
		AK					<del>                                     </del>		+	
				FORE	IGN PA	TENT DOCUMENTS		- L		
		DO	CUMENT NUMBER	DATE		COUNTRY	CLASS	SUBCLASS	TRANSL Yes	ATION No
	AL								165	INU
	АМ		-							
	AN									
	40									
	AP	<del></del> _	OTHER PRIOR	4 D T //						•
<del>- 1 -</del>			Physiological Revi	AHI (INC	luding Au	thor, Title, Date, Per	inent Pages,	Etc.)		
A	AR T		in Insects: Facts, C	Saps, and	Future D	997, pages 963-1032 irections"	<u>, Gerd Gade</u>	et al, "Hormo	nal Regu	ılation
	· -	-1	Progress in the ch	emistry of	organic r	natural products, (mo	nth unavailab	le) 1997, pag	es 1-128	
<del>-   ^</del>	s [		G. Gade, The Exp	DOSION OF S	Structura	l Information on Insec	t Neuronanti	dee"		
A	\т		Sequence Analysis	of cDNA	navailable	e) 2000, pages 13-17	, Soon-Duck	Ha et al, "Clo	ning and	
XAMINE				OI CDINA	ioi Diure	tic Hormone Recepto	r from the Bo	ombyx mori"	<del></del>	
XAMINEI	R Initial	if refer	rences considered, whe	ther or not ci	tation is in	Conformance with MDED of	09: Draw line th	rough if not in co	nformance	and
	<u> </u>	-C-IUUO	copy of this form with n	ext communi	cation to ap	oplicant.				

Sheet 4 of 14

Sheet 5 of 14 Atty. Docket No Serial No. Form PTO 1449 **U.S. Department of Commerce** Rev. 7-80 Patent and Trademark Office CS-7733/LeA 36,033 10/511,221 LIST OF PRIOR ART CITED BY APPLICANT Applicant Horst-Peter Antonicek et al (Use Several Sheets If Necessary) Group Filing Date October 13, 2004 **U.S. PATENT DOCUMENTS EXAMINER** FILING DATE IF APPRO-DATE SUBCLASS INITIAL **DOCUMENT NUMBER** NAME **CLASS PRIATE** AA AB AC AD ΑE AF AG AΗ ΑI <u>AJ</u> **FOREIGN PATENT DOCUMENTS** TRANSLATION Yes No **DOCUMENT NUMBER** DATE COUNTRY **CLASS SUBCLASS** Yes No ΑL AM AN AO ΑP OTHER PRIOR ART (Including Author Title Date Pertinent Pages Etc.)

		OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)
		Pflügers Arch., 391, (month unavailable) 1981, pages 85-100, O.P. Hamill et al, "Improved
	AR	Patch-Clamp Techniques for High-Resolution Current Recording from Cells and Cell-Free
		Membrane Patches"
		Biochem. Biophys. Res. Comm., 249, (month unavailable) 1998, pages 822-828,
	AS	Frank Hauser et al, "Molecular Cloning, Genomic Organization and Developmental Regulation of a
		Novel Receptor from <i>Drosophila melanogaster</i> Structurally Related to Gonadotropin-Releasing
		Hormone Receptors from Vertebrates"
		Proc. Natl. Acad. Sci. U.S.A, Vol. 94, pages 5195-5200, Bruce A. Hay et al, "P element insertion-
	ΑT	dependent gene activation in the <i>Drosophila</i> eye"
EXA	INER	DATE CONSIDERED
		al if references considered, whether or not citation is in conformance with MPEP 609: Draw line through if not in conformance and
not c	onsidered.	Include copy of this form with next communication to applicant.

•	•						Sheet <u>6</u>	of 14		
Form PTO 1449	1	U.S. Department of Co	mmerce		Atty. Docket No		Serial No.	0. 14		
Rev. 7-80	T OF PE	Patent and Trademark C RIOR ART CITED BY A	Office PPLICANT		CS-7733/LeA 36,033 10/511,221 Applicant					
Lio	(Use S	Several Sheets If Neces	sary)		Horst-Peter Antonicek et al					
					Filing Date Group October 13, 2004					
			U.S. P	ATENT	DOCUMENTS					
EXAMINER INITIAL		DOCUMENT NUMB	ER DATI	E	NAME	CLASS	SUBCLASS	FILING IF APF PRIA	PRO-	
	AA									
•	АВ									
	AC									
	AD_									
	AE							<u>-  </u>		
	AF									
	AG									
	AH									
	Al									
	AJ									
<u></u>	AK		FOREIGN	N PATE	NT DOCUMENT	S				
	DO	CUMENT NUMBER	DATE		COUNTRY	CLASS	SUBCLASS	TRANSL		
	+							Yes	No	
AL	-						<u> </u>			
AM	-									
AN	+									
AO										
AP		OTHER PRIOR	ART (Includ	ina Aut	hor, Title, Date, F	ertinent Page	s, Etc.)	L	L	

Genome Research, 11 (6), (month unavailable) 2001, pages 1126-1142, Randall S. Hewes and
Paul H. Taghert, "Neuropeptides and Neuropeptide Receptors in the *Drosophila melanogaster*Genome"
Comparative Biochemical Physiology, vol. 84C, No. 2, (month unavailable), 1986, pages 205-211,
C.M. Holman et al, "Isolation, Primary Structure and Synthesis of Two Neuropeptides from Leucophaea Maderae: Members of a New Family of Cephalomyotropins"
Insect Neuropeptides: Chemistry, Biology and Action, (month unavailable) 1991, pages 40-50,
G. Mark Holman et al, "Insect Myotropic Peptides Isolation, Structural Characterization, and Biological Activities"

DATE CONSIDERED

EXAMINER Initial if references considered, whether or not citation is in conformance with MPEP 609: Draw line through if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO 1449 Rev. 7-80		U.S. Department of C	Office		Atty. Docket No CS7733/LeA 36,03	33	Sheet <u>7</u> of <u>14</u> Senal No. 10/522,221		
LIS		RIOR ART CITED BY A Several Sheets If Nece		AN I	Applicant Horst-Peter Antoni	cek et al			
	•		••		Filing Date		Group		_
				U.S. PATE	October 13, 2004 ENT DOCUMENTS				_
EXAMINER INITIAL		DOCUMENT NUM		DATE	NAME	CLASS	SUBCLASS	FILING IF API PRI	PRO-
	AA								
	АВ								
	AC								
	AD								
	AE								
	AF								
	AG								
	AH								
	AI_								
	A.J								
	AK								
			FO	REIGN PA	ATENT DOCUMENT	<u>'S</u>			
	DO	CUMENT NUMBER	DAT	rE	COUNTRY	CLASS	SUBCLASS	TRANSL Yes	ATION No
AL									
АМ									
AN									
AO									
AP									
		OTHER PRIOR	RART	(Including	Author, Title, Date, P	ertinent Page:	s, Etc.)		
	$\sqcup$	Current Opinion in	Drug l	Discovery	& Development, Vol.	2, (month una	available) 1999	, pages 8	<u> 33-95,                                    </u>

Current Opinion in Drug Discovery & Development, Vol. 2, (month unavailable) 1999, pages 83-95,

Frank D. King and Shelagh Wilson, "Recent advances in 7-transmembrane receptor research"

European Journal of Biochemistry, 187, (month unavailable) 1990, pages 249-254,

AS Marie Lagueux et al, "cDNAs from neurosecretory cells of brains of Locusta migratoria (Insecta, Orthoptera) encoding a novel member of the superfamily of insulins"

Biochem. Biophys. Res. Comm., 269, (month unavailable) 2000, pages 91-96, Camilla Lenz et al,

"Molecular Cloning and Genomic Organization of a Novel Receptor from Drosophila melanogaster Structurally Related to Mammalian Galanin Receptors"

EXAMINER Initial if references considered, whether or not citation is in conformance with MPEP 609: Draw line through if not in conformance and

Copies of documents previously submitted by WIPO.

not considered. Include copy of this form with next communication to applicant.

							Sheet <u>8</u> of <u>14</u>							
Form Rev. 7	PTO 1449		U.S. Department of C Patent and Trademark		Ce		Atty. Docket No		Serial No.					
nev. /		T OF F	PRIOR ART CITED BY		ANT		CS7733/LeA 36,033 10/522,221 Applicant							
		(Use	Several Sheets If Nec	essary)			Horst-Peter Antonicek et al							
							Filing Date October 13, 2004		Group					
					U.S.	PATEN	IT DOCUMENTS							
	MINER	1								FILING				
IN	IITIAL		DOCUMENT NUM	BER	DA	ATE	NAME	CLASS	SUBCLASS	IF AP				
								· · · · · · · · · · · · · · · · · · ·			AIE			
		AA							ļ		ļ			
		AB		-	<del> </del>									
		AC						_						
•		AD				:								
	-					- 1		-						
		AE		-										
		AF												
		AG												
			•											
		AH			<del> </del>			<del> </del>						
		Al				•								
		AJ.				-								
		AK												
		1 AR		F	DREIG	N PAT	ENT DOCUMENTS	 	L					
		DO	CUMENT NUMBER	DA	TE		COUNTRY	CLASS	SUBCLASS	TRANSL Yes	ATION No			
						<del></del>		<del>-  </del>		163	140			
	AL				_			<u> </u>	ļ					
	AM					-								
	AN													
	AO			<u>.                                    </u>										
	AP					<u> </u>								
							uthor, Title, Date, Pe			. '11 - 1				
	AR						(month unavailable)							
	7411		Drosophila melano			nc Orga	anization of a Secon	d i lobable Al	ialosialiii riec	eptor iron	11			
						vailable	e) 1991, pages 3221	-3229, Xiao J	liang Li et al, "	Cloning,				
	AS		heterologous expre				mental regulation of				like			
			peptides"				-	_						
	.~						, pages 1298-1302,		onnier et al, "N	√KD, a				
EXAM	AT		Developmentally R	egulat	ed Ta	chykini	n Receptor in <i>Droso</i> DATE CONSIDERED							
	mach						I DATE COMBIDENEL	,						

EXAMINER Initial if references considered, whether or not citation is in conformance with MPEP 609: Draw line through if not in conformance and not considered. Include copy of this form with next communication to applicant.

Rev. 7-80	TOFP	Patent and Trademark			CS7733/LeA 36,033   10/522,221   Applicant					
LIS		RIOR ART CITED BY A Several Sheets If Nece			Horst-Peter Antonicek et al					
	•		••		Filing Date October 13, 2004		Group			
			U.S.	PATENT	DOCUMENTS					
EXAMINER INITIAL		DOCUMENT NUME	BER DA	TE	NAME	CLASS	SUBCLASS	FILING IF API PRIA	PRO-	
	АА									
	АВ									
	AC	-						<del></del>		
	AD							_		
	AE_						-			
	AF							<del>-  </del>		
	AH									
	AI									
	AJ	-				-				
	AK									
	·		FOREIG	IN PATE	ENT DOCUMENTS	<del> </del>	ı			
	DO	CUMENT NUMBER	DATE		COUNTRY	CLASS	SUBCLASS	TRANSL Yes	ATION No	
AL										
AM										
AN						<del>-</del> -				
AO								<u></u>		
AP_	<u></u>	OTHER PRICE	ART (Inclu	ding Aut	thor, Title, Date, Pe	rtinent Pages	Etc.)		L	
	1	Pharmacology & 7	Therapeutics	s, 69. (m	onth unavailable) 1	996, pages 1	17-142, Richa	rd H. Ost	orne,	
AR		"Insect Neurotrans	smission: Ne	urotrans	smitters and Their F	Receptors"				
		Transposable Elei	ments/Curre	nt Topic	s in Microbiology ar	nd Immunolog	y, 204, (mont	h unavail	able)	
AS					, "The Tc1/mariner			Domosii		
AT AT		Journal of Experin	nental Biolog	gy, 31, (r	month unavailable) bighian Tubules of t	1954, pages	104-113, J.A.	<u>ramsay,</u> Iorosus	·	
		(Orthoptera, Phas		uie iviais			ot, Dixippus IVI	U U U U U U		
EXAMINER					DATE CONSIDEREI					
EXAMINER Init not considered.	ial it refe Include	erences considered, who e copy of this form with	etner or not cite next communic	ation is in o ation to ap	conformance with MPEP oplicant.	ous: Draw line t	nrough ir not in co		and	

Atty. Docket No

Sheet 9 of 14

Serial No.

Copies of documents previously submitted by WIPO.

Form PTO 1449

**U.S. Department of Commerce** 

Form	PTO 1449		U.S. Donardmant of C				A# - D - I - I I I			10 of 14		
Rev.	7-80		U.S. Department of C Patent and Trademark	Office			Atty. Docket No CS7733/LeA 36,033	.	Serial No. 10/522,221			
	LIS		PRIOR ART CITED BY Several Sheets If Nec		ANT	Γ.	Applicant		,			
		(000	Several Sheets II Net	essai y)			Horst-Peter Antonicek et al Filing Date Group					
					HO BAT		October 13, 2004					
EX	AMINER	1	<u> </u>	<u>_</u>	U.S. PAT	ENID	OCUMENTS	<del></del>		FILING	DATE	
	NITIAL		DOCUMENT NUM	IBER	DATE		NAME	CLASS	SUBCLASS	IF AF	PRO-	
		AA										
		АВ				ļ						
		AC										
		AD					_					
		AE		•								
		AF										
		AG									_	
		АН				<u> </u>						
!		AI				<u> </u>						
		AJ								_		
		AK				Ì						
				FO	REIGN PA	TENT	DOCUMENTS			<del></del>		
		DO	CUMENT NUMBER	DAT	E	(	COUNTRY	CLASS	SUBCLASS	TRANSL	ATION	
				ļ						Yes	No	
	AL											
	АМ					_						
	AN		<u></u>									
	AO											
	AP											
	- т	r	OTHER PRIOF	ART (	Including A	Author	, Title, Date, Per	rtinent Pages	Etc.)			
	AR		Journal of Biologic Cloning of an Inse	ct Diure	nistry, 269	), Janu	uary 7, 1994, pa	ges 9-12, Jef	D. Reagan, "	Expressi	on	
_			Analytical Biocher					200c 115-126	S. Jonny Stobl	os et al		
	_AS		"A Bioluminescent	Assay	for Agonis	t Activ	rity at Potentially	Anv G-Prote	in-Coupled Re	es et ai, eceptor"		
			Current Opinion in	Biotech	nnology 6,	(mon	th unavailable) 1	995, pages 5	74-581. Chris	tian Stra	towa	
- L	AT		et al, "Use of a luc	iferase I	reporter s	ystem	for characterizir	ng G-protein-l	inked recepto	rs"_		
EXAM							DATE CONSIDERED	-				
DOL CO	INER Initia	l if refe	rences considered, who copy of this form with r	ether or no	ot citation is	in confo	mance with MPEP	609: Draw line th	nrough if not in co	onformance	and	
			COPY OF THIS TOTHE WILL!	ISAL CUITIII	numbalion to	applica						

Sheet 11 of 14

Form PTO 1449 U.S. Department of Commerce Rev. 7-80 Patent and Trademark Office					Atty. Docket No Serial No. CS7733/LeA 36,033 10/522,221						
LIST OF PRIOR ART CITED BY APPLICANT (Use Several Sheets If Necessary)						Applicant Horst-Peter Antonicek et al					
(					Filing Date Group						
				IIS PA	TENT	October 13, 2004 DOCUMENTS					
EXAMINE INITIAL	R	DOCUMENT NUMBER DATE			NAME	CLASS	SUBCLASS	FILING DATE IF APPRO- PRIATE			
	AA										
	AB				_						
	AC			<u> </u>			<u> </u>		-		
	AD	<u> </u>		. <u> </u>			_	_			
	AE			···-					_		
	AF					· · · · · · · · · · · · · · · · · · ·					
	AG										
	AH								-		
	AI	ļ		· · · · · · · · · · · · · · · · · · ·					_		
	AJ				_						
<u></u>	AK		FC	DEIGN	DATE	NT DOCUMENTS					
		FOREIGN PATENT DOCUMENTS									
	DO	CUMENT NUMBER DA		DATE		COUNTRY	CLASS	SUBCLASS	TRANSLATION Yes No		
AL	_	***								<u> </u>	
AN	1		ļ			-				<u> </u>	
AN										<u></u>	
AC	<u> </u>		<u> </u>					-		<u> </u>	
AF	,	OTUES SOIG	D 45=	(111 -		Tilla Data Da	artin ant Dage				
<del></del>	.	I of Experiment	al Bioloc	(Includin	ig Autr	nor, Title, Date, Pe	9 nades 366	s, Etc.) 7-3676 Selim	Terhzaz	et al	
AF	₁	J. of Experimental Biology, 202, (month unavailable) 1999, pages 3667-3676, Selim Terhzaz et al, "Isolation and Characterization of a Leucokinin-Like Peptide of <i>Drosophila Melanogaster</i> "									
		Perspectives in Comparative Endocrinology, (month unavailable) 1994, pages 12-19, Stephen S. Tobe and C.G. Yu, "Allatostatins, peptide inhibitors of juvenile hormone production in									
AS	3	Stephen S. Tobe insects"	and C.	G. Yu, "/	Allatos	tatins, peptide inh	ibitors of juve	nile hormone (	oroductio	n in	
		Ann. NY Acad. Sci., 897, pages 367-373, Pieter Torfs et al, "The Kinin Peptide Family in									
EXAMINER		Invertebrates"				DATE CONSIDERE	D				
			L-41		· -  -	1		through if not in a	ontomana	and .	
		ferences considered, v de copy of this form wit					- Jus. Draw line	unough it not in c		, and	

					Sheet <u>12</u> of <u>14</u>					
Form PTO 1449  U.S. Department of Commerce  Rev. 7-80  Patent and Trademark Office					Atty. Docket No CS7733/LeA 36,033					
LIST OF PRIOR ART CITED BY APPLICANT (Use Several Sheets If Necessary)					Applicant Horst-Peter Antonicek et al					
					Filing Date October 13, 2004	Filing Date Group				
			U	.S. PATEN	NT DOCUMENTS					
EXAMINER INITIAL		DOCUMENT AND	250	5475		CLASS			FILING DATE IF APPRO- PRIATE	
INITIAL		DOCUMENT NUM	BER	DATE	NAME		SUBCLASS			
<del></del>	- AA							<del></del>		
	AB							<del></del>		
	AC									
	AD									
	AE									
	AF				·					
	AG									
	AH									
	Al									
	AJ									
<u></u>	AK									
		· · · · · · · · · · · · · · · · · · ·	FOR	EIGN PAT	ENT DOCUMENTS					
	DO	CUMENT NUMBER	DATE	.	COUNTRY	COUNTRY CLASS			ATION	
		DOCOMENT NOMBER					SUBCLASS	Yes	No	
AL										
AM										
AN										
AO										
AP					- "					
•		OTHER PRIOR	ART (In	ncluding Au	ıthor, Title, Date, Perti	nent Pages	, Etc.)		————	
	$\sqcup \bot$	Trends in Endocrir	nology &	Metabolisr	m, 8, (month unavailat	ole) 1997, p	ages 321-326	,		
AR	Jozef Vanden Broeck et al, "Insect Neuropeptides and Their Receptors"									
	Archives of Insect Biochemistry and Physiology, 48, (month unavailable) 2001, pages 1-12,									
AS	-	Jozef Vanden Broeck, "Insect G Protein-Coupled Receptors and Signal Transduction"								
AT	<del>  </del>	Nature, vol. 396, December 17, 1998, pages 679-682, Julia H. White et al, "Heterodimerization is required for the formation of a functional GABA <sub>B</sub> receptor"								
EXAMINER	<u> </u>	required for the fol	mation o	n a function	DATE CONSIDERED		<del></del>			
not considered.	aı it rete Include	rences considered, who copy of this form with r	ext commu	t citation is in unication to a	conformance with MPEP 60 pplicant.	09: Draw line th	rough if not in co	nformance	and	

Form PTO 144	<u>-</u>	II S Department of (	`ammaroc		Sheet 13 of 14					
Rev. 7-80 Patent and Trademark Office				Atty. Docket No CS7733/LeA 36,033	3	Serial No. 10/522,221				
LIST OF PRIOR ART CITED BY APPLICANT (Use Several Sheets If Necessary)					Applicant		Toront,			
	(USG	Several Sheets II Net	:essary)		Horst-Peter Antonic Filing Date	Horst-Peter Antonicek et al				
					October 13, 2004		Group			
				J.S. PATEN	IT DOCUMENTS					
EXAMINER INITIAL	DOCUMENT NUM		ABED DATE						G DATE	
		DOCONIENT NOW	IDEN	DATE	NAME	CLASS	SUBCLASS		IF APPRO- PRIATE	
	AA							<del>-   - ' ' '</del>	IAIL	
<del></del>	AA									
	AB		1							
						<u> </u>	<del> </del>	<u> </u>		
	AC				<del></del>					
	AD									
	AE									
					· · · · · · · · · · · · · · · · · · ·		<del></del>			
	AF	<u> </u>								
	AG			<b> </b>						
	AH									
	AI					<u> </u>				
	AJ									
	AK									
	TVIX		FOF	REIGN PAT	ENT DOCUMENTS		<u> </u>	i		
							<u> </u>	Γ		
	DOCUMENT NUMBER DATE			•	COUNTRY	SUBCLASS	TRANSLATION			
				<u> </u>				Yes	No	
AL	<u></u>	·								
AM	<u></u>									
AN									i	
100										
AO										
AP										
	<del>- 1 -</del>	OTHER PRIOR	ART (In	ncluding Aut	thor, Title, Date, Per	tinent Pages,	Etc.)	<del></del>		
AR		Seinsche A et al: "	Effect of	helicokinin	and ACE inhibitors	on water bal	ance and dev	elopmen	t of	
/ / /	S	Heliothis virescens larvae." Journal of Insect Physiology, Bd. 46, Nr. 11, November 2000 (2000-1) Seiten 1412-1431, XP002255031								
	*Holmes S P et al: "Cloning an transcriptional expression of a leucokinin-like peptide recept									
AS	T	The Southern cattle click, Boophilus microplus (Acari: Ixodidae)." Insect Molecular Biology, Bd. 9, Nr.								
	_   ວ	, Oktober 2000 (20			1					
$\dashv$ $_{\star}$ $\vdash$	<u></u> *(	Cox Kingsley J A e	t al: "Clo	ning, chara	cterization, and exp	terization, and expression of a G-protein-coupled recentor				
AT	I nom Lymnaea stagnalis and identification of a leucokinin-like pentide, PSFHSWSamida, as its								1	
i i	endogenous ligand" Journal of Neuroscience, New York, NY, US, Bd. 17, Nr. 4, 15. Februar 199 (1997-02-15), Seiten 1197-1205, XP002167959								97	
XAMINER		10/, Colle	. 119/-1	200, AF004	DATE CONSIDERED		<del> </del>			
XAMINER Initial	if refer	ences considered who	thor or mot	oitotion in in						
ot considered.	nclude (	copy of this form with n	mer or not ext commu	citation is in c inication to abi	onformance with MPEP 6	609: Draw line the	rough if not in co	nformance	and	

Rev. 7-80 Patent and Trademark Office  LIST OF PRIOR ART CITED BY APPLICANT					CS7733/LeA 36,03 Applicant	3	Serial No. 10/522,221					
			Several Sheets If Nec			Horst-Peter Antonio	cek et al					
						Filing Date October 13, 2004		Group				
				U.S	S. PATENT	DOCUMENTS			<u></u>			
EXAMII INITI			DOCUMENT NUMBER		DATE	NAME	CLASS	SUBCLASS	S   IFA	FILING DATE IF APPRO- PRIATE		
		AA										
		AB										
<del></del>		AC										
		AD						,				
		AE							_			
		AF AG							<del></del>			
		AH					<del> </del>					
		AI						<del>                                     </del>	<del></del>			
		AJ										
		AK										
<del></del>				FORE	<u>IGN PATE</u>	NT DOCUMENTS	3					
		DOC	OCUMENT NUMBER DAT			COUNTRY		SUBCLASS	TRANSLATION Yes No:			
A	\L								1	1.0.		
A	м				<del></del>							
A	.N											
A	0								ļ <u></u>	<u> </u>		
A	P											
			Plackburn Michael	ART (Incl	uding Auth	or, Title, Date, Pe	rtinent Pages,	Etc.)				
A	R	<del>-   ,</del>	Abdominal ventral	nerve cord	ne isolation	on and identification of three diuretic kinins from the						
		Abdominal ventral nerve cord of adult Helicoverpa zea." Journal of Insect Physiology, Bd. 41, Nr. 8, 1995, Seiten 723-730, XP002255033										
A	s	_   [	*Pietrantonio Patricia V et al: "Characterization of a leucokinin binding protein in Aedes aegypti (Diptera: Culicidae) Malpighian tubule." Insect Biochemistry and Molecular Biology, Bd. 30, Nr. 12, Dezember 2000 (2000-12), Seiten 1147-1159, XP002255034									
		*Oeh U et al: "Myotropic effect of helicokinins, tachykinin-related pentides and Manduca sexta										
A	т	^	anatotropin on the	gut of Helic	othis vireso	cens (Lepidoptera: 3 (2003-04-20), Se	· Noctuidae) "	Journal of Inc	eact			
EXAMINER	1	L				DATE CONSIDERED	)					

EXAMINER Initial if references considered, whether or not citation is in conformance with MPEP 609: Draw line through if not in conformance and not considered. Include copy of this form with next communication to applicant.

Sheet <u>14</u> of <u>14</u>